

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:
Katsumi SAKITANI et al.

Patent No.: 7,434,414 B2

Issued: October 14, 2008

For: REFRIGERATION APPARATUS

**REQUEST FOR CERTIFICATE OF CORRECTION
PURSUANT TO 37 CFR 1.323**

Attention: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Madam:

Upon reviewing the above-identified patent, Patentee noted typographical errors which should be corrected.

On the face of the Patent:

On the face of the Patent, Item (56) References Cited, Japanese References JP-3-172587-A and JP-3-137457-A filed with the Information Disclosure Statement filed on September 8, 2006, and considered by the Examiner have been entirely omitted from the printed patent. Please include these references.

Also on the face of the Patent, Item (56) References Cited, Japanese Reference "JP-2000-32916-A" should read --JP-2000-329416-A--.

The errors were found in the application as filed by applicant. Please charge our Deposit Account No. 02-2448 in the amount of \$100.00 covering the fee set forth in 37 CFR 1.20(a).

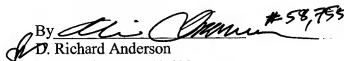
The errors now sought to be corrected are inadvertent typographical errors the correction of which does not involve new matter or require reexamination.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Patentee respectfully solicits the granting of the requested Certificate of Correction.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Dated: December 12, 2008

Respectfully submitted,

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**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 7,434,414 B2
APPLICATION NO. : 10/541,590
ISSUE DATE : October 14, 2008
INVENTOR(S) : Katsumi SAKITANI et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Face of the Patent, Item (56) References cited:

The following two references should be included on the face of the printed patent:

JP-3-172587-A and JP-3-137457-A

On the Face of the Patent, Item (56) References cited:

The reference reading "JP-2000-32916-A" should read --JP-2000-329416-A--.

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PTO/SB/08a/b (07-06)

Approved for use through 09/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/B/PTO			Complete If Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/541,590-Conf. #7820	
			Filing Date	July 7, 2005	
			First Named Inventor	Katsumi SAKITANI	
			Art Unit	3744	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	1	Attorney Docket Number	4633-0140PUS1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	6,484,519	11-26-2002	Hessa et al	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	Foreign Patent Document Country Code* - Number* - Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
	BA	JP-3-172587-A	07-25-1991			
	BB	JP-3-137457-A	06-12-1991			
	BC	JP-2003-279479	10-02-2003			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. † Applicant's unique citation designation number (optional). ‡ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. * Entries Office that issued the document, by the two-letter code (WIPO Standard ST.3). * For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ‡ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. * Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	†

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† Applicant's unique citation designation number (optional). * Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature: 	Date Considered: 1/3/08
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Birch, Stewart, Kolosch & Birch, LLP

DRA/mag

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Substitute for form 1449		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/541,590
		Filing Date	July 7, 2005
		First Named Inventor	Katsumi SAKITANI
		Art Unit	3744
		Examiner Name	Not Yet Assigned
Sheet 1 of 1	Attorney Docket Number	4633-0140PUS1	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	BA	JP-2000-32916-A	11-30-2000			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	1/3/08
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Birch, Stewart, Kotach & Birch, LLP

DRA/srm

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(54) 【発明の名称】 冷凍サイクル

(57) 【要約】

【課題】 蒸発器内の圧力が上昇したときであっても、冷凍能力が大きく低下してしまうことを防止する。

【解決手段】 膨張機130にて膨張する主流冷媒の膨張エネルギーを機械エネルギーに変換し(膨張仕事をさせ)ながら主流冷媒を減圧するとともに、その変換された機械エネルギーにより第2圧縮機140を稼働させる。これにより、熱交換器123を流出した主流冷媒は、等エントロピー変化をしながらそのエンタルピーを低下させていくので、蒸発器150内の圧力が上昇したときであっても、冷凍能力が大きく低下してしまうことを防止できる。

